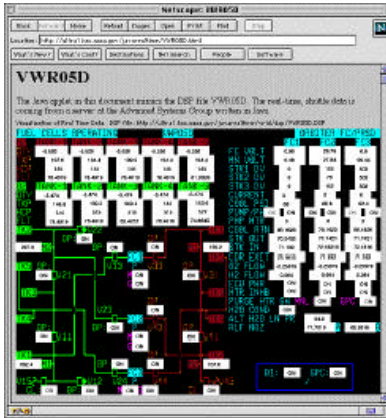


FACT SHEET

NetLander to Commercialize NASA Web-based Software



A Florida software company, NetLander, Inc., is commercializing a NASA-licensed technology known as JView, a high-powered Web-based data distribution software system currently used in Space Shuttle operations at Kennedy Space Center (KSC).

NetLander, a Florida/NASA Business Incubation Center tenant, is marketing the innovation as *Vita Touch* for use in commercial manufacturing, telemedicine, and finance, according to Tom Beever, company president. The Titusville, Florida company envisions its Vita Touch technology as the basis for a near-real-time Internet remote-monitoring product. With its modular design, engineering experts, for example, could use Vita Touch to see how systems are functioning and troubleshoot them in industrial plants around the globe from a single physical locale. Physicians and other health care professionals could use Vita Touch to monitor patients' vital statistics from a hospital, clinic, or home to offer better and more cost-effective care. Vita Touch could also accommodate "live" reporting of stock quotes for brokers and investors.

At Kennedy Space Center, JView is one part of the new Space Shuttle Checkout and Launch Control System (CLCS), Beever said. CLCS is a large 300-person project designed to upgrade and update the KSC Space Shuttle firing and control software.

KSC originally developed the web-based near real-time monitoring system called JGOAL for access to Space Shuttle and ground support equipment from any type of desktop computer using a Web browser. The JGOAL collection of computer

programs facilitates the real-time display, via the Internet, of multiple streams of data from the Space Shuttle and supporting equipment. This eliminates the need for a dedicated PC to view data, significantly reduces the cost and effort to support viewing of real-time data, and opens up new avenues for viewing this data.

JGOAL is so named because it is written in the Java programming language and because the data to be displayed are first processed for distribution over the Internet by a program called PCGOAL, which runs on a server computer that receives the data streams from a common data buffer. PCGOAL is based on the Ground Operations Aerospace Language (GOAL). JView, an upgraded combination of JGOAL and PCGOAL, is intended to enable a user at a desktop computer running Web-browser software to connect to a data server computer, select a data stream, and activate plot-window displays. JView is expected to support the entire KSC user community, estimated at 800 users.

Benefits of Vita Touch are numerous. Beever pointed out that improved patient care, improved distributed manufacturing information, and the creation of jobs in the local community are possible benefits. The user of the technology gains geographic independence through Java applets (client) and Java applications (server) that work locally or over the Internet, providing the flexibility to display information globally as required. There is less time spent on development and training. Utilizing a commercial off-the-shelf (COTS) Web browser client (display) shortens the software development process and minimizes implementation times and costs.

Also, applications are written once to run anywhere, ensuring portability and architectural independence rather than obsolescence. The clients and servers may be run on almost any hardware or operating system from PC's to mainframes. Security is also easier. Policies for access and safe execution of Java applets are easily established. Administration and distribution of application updates are also easy to manage, since the latest applets are downloaded as needed from the server. Finally, the use of existing displays, made possible by a Java translation application, enables rapid availability and efficient use of legacy code for supporting multiple displays on one or many desktop computers

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